Traffic Assist Highspeed
Traffic Assist Highspeed II

SD
MP3
WMA
JPG

BECKER

Operating instructions GB

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*Applies only to the Traffic Assist Highspeed II

⚠Safety information

- **The unit may only be operated if the traffic situation allows for this and if you are absolutely certain that you yourself, your fellow passengers or other road users will not be put at risk, encumbered or disturbed by this.**

- **The rules of applicable road traffic acts must be observed at all times. Destinations may only be input when the vehicle is stationary.**

- **The navigational system is only an aid. The data/details provided may in some cases be incorrect. The driver must always decide whether to follow the details given or not. We accept no liability for the navigational system issuing incorrect details. As a result of traffic routing changes and deviating data, inaccurate or incorrect instructions may be given. Drivers should always pay attention to the actual road signs and traffic control. In particular, the navigational system cannot be used as a means of orientation in cases of poor visibility.**

- **The unit may only be used for its intended purpose. The volume of the Navigationsgerätes should be set so that noises outside the vehicle can still be heard.**

- **The unit should be switched off immediately if faults occur (e.g. development of smoke or smells).**

- **For safety reasons, the unit may only be opened by a specialist. Please contact your local stockist if you require repairs.**

- **The SD memory card can be removed. Caution! Small children could swallow it.**
- **The mains voltages (V) indicated on the mains charger, the car charger adapter and the unit must not be exceeded. Failure to observe this can result in destruction of the unit and the charger as well as explosion of the rechargeable battery.**
- **Never open the unit or the rechargeable battery. Any modification to the unit is also impermissible and renders the type approval invalid.**
- **Use only genuine BECKER original accessories. This will ensure that all the relevant regulations are complied with and damage to health and property is avoided. Dispose of defective units and the rechargeable battery according to the applicable legal requirements.**
- **No warranty is granted in the case of improper use. These safety instructions also apply to genuine BECKER original accessories.**

Operating guide content

The two devices Traffic Assist Highspeed and Traffic Assist Highspeed II are described in this operating guide. All the descriptions, with the exception of those marked with an asterisk (*), apply to both devices.
The sections of the operating guide marked with an asterisk (*) apply specifically to the Traffic Assist Highspeed II.

Use

The Traffic Assist Highspeed is a powerful PND (**P**ersonal **N**avigation **D**evice) for use in vehicles and closed spaces. The unit should be protected from dampness and dirt.

The Traffic Assist Highspeed can be used as:

- navigational unit
- MP3 (device for playing music)
- JPEG picture viewer

Navigation

Thanks to GPS = **G**lobal **P**ositioning **S**ystem, you no longer need to spend hours searching through road atlases.
Once outside buildings, the receiver antenna integrated in the unit gives you continuous access to navigational possibilities. Depending on reception, you may not be able to use the navigational function inside buildings. When used in vehicles, you may not be able to adequately receive GPS data depending on how the Traffic Assist Highspeed is installed. In such cases, you will have to connect up an external antenna (does not fall within the scope of supply).
The Traffic Assist Highspeed II is equipped with TMC*, which gives you the option of receiving traffic announcements via the TMC antenna provided. Traffic announcements are transmitted when the TMC is active. The system plans an alternative route automatically or on request to avoid traffic problems, depending on the setting.

*Applies only to the Traffic Assist Highspeed II

Music
Thanks to the integrated MP3-Player, you can listen to your favourite tracks when on the go.

Pictures
The Traffic Assist Highspeed has a Picture Viewer offering many functions for viewing pictures.

Unpacking the Traffic Assist Highspeed

Note:

Your Traffic Assist Highspeed is supplied in stable packaging. Do not unpack the unit in full if you discover any serious damage to the packaging or its content. If this happens, please contact your local stockist.

Checking the delivery
Before the Traffic Assist Highspeed is started up, the delivery should be checked to ensure that it is complete and in the correct condition (see also page 12).

▶ Carefully unpack the content of the package and check it.

Delivery contents

Complaints procedure

Please contact your local stockist if you have any complaints. The unit can also be sent directly to Harman/Becker in its original packaging.

Handling the packaging

Keep the original packaging in a dry place, at least for the warranty period.

Note:

The packaging should be disposed of correctly in accordance with national disposal guidelines. The packaging must not be burnt. Depending on the country to which the unit is supplied, it may be possible for local stockists to accept packaging.

Description of unit

The Traffic Assist Highspeed consists of the basic unit Traffic Assist Highspeed and the accessories included in the delivery.

You will find photos of the individual parts under:

• "Overview Traffic Assist Highspeed" on page 12

Note:

The basic unit and accessories must not be opened or modified in any way.

Traffic Assist Highspeed - basic unit

The basic unit comprises the entire electronics, an integrated antenna for GPS signal reception, a touch screen for communication, an integrated loudspeaker for the output of messages during navigation as well as for MP3 files, illuminated strips along the sides of the unit and various connections and interfaces.

You will find more details of the unit under:

• "Technical Data" on page 83

Cable for power supply from cigarette lighter

This cable allows the unit to be connected up to the car's cigarette lighter.
The power supply must satisfy the following requirements:

- DC current 12 volts
  0.5 amps

Battery

When depleted, the integrated rechargeable battery can be recharged by connecting the Traffic Assist Highspeed to the power supply.
For this purpose, connect the unit to a computer via the USB connecting cable, connect it to a 12 V socket in a vehicle using the car power adapter, or charge it using the optional mains power supply unit connected the 230 V grid.

SD memory card

A memory card is used as a storage medium for road maps, music tracks and images.
The card supplied with the unit can hold one set of roadmaps. If you intend to listen to music using the Traffic Assist Highspeed or want to view images, you must save these to a separate card (not included).

Note:

Playback of music while an active navigation is in progress is only possible if a memory card with a higher storage capacity is used (available separately). This can be used to store additional map material as well as music tracks.

When not in the unit, the memory card must be stored in a protected dry place away from direct sunlight in the packaging supplied. Avoid touching or dirtying the contact strip.
You will find more details about the memory card under:

- "Technical Data" on page 83

USB connection cable

The USB connection cable can be used to connect the unit to a standard personal computer by means of the USB port. You can charge the Traffic Assist Highspeed using the USB cable. However, to use the data on the PC, you will first have to install the free "Active Sync" software from Microsoft®.

Unit bracket

The Traffic Assist Highspeed can be mounted in the vehicle using the unit bracket.

Accessories

Mains power supply unit

This power supply allows connection of the Traffic Assist Highspeed to a mains outlet.
Requirements for power supply:
Alternating current

- 100-240 V
  0.2 Amps
- 50-60 Hertz

External GPS antenna

You can use an external antenna to improve reception in vehicles where only limited GPS reception is available (not included in the scope of supply). Please contact your local stockist for more information.

Headset

When using the Traffic Assist Highspeed as an MP3 player, commercially available headphones with a 3.5 mm jack or adapter can be connected (not included).

Danger!

Headsets must not be worn during travel. Observe national regulations and legislation on this matter.
When using the headset, lower the volume so that your hearing is not damaged.

Information about documentation

Quick start guide

The Quick Start Guide is designed to provide a brief introduction to operating your Traffic Assist Highspeed. The most important basic functions of the Traffic Assist Highspeed are explained in the Quick Start Guide.

Operating instructions

A comprehensive explanation of the Traffic Assist Highspeed functionalities is contained in these operating instructions.

Registration

You can register your product using our software service,
we will then inform you of any new updates and other news.

You can register online on the Becker homepage (www.becker.de).

The “Registration” menu item is located under “Service“.

Repairs

The unit must not be opened if damaged. Please contact your local stockist.

Disposal

Note:

The unit, including the parts supplied with it and the batteries and accessories, must be disposed of correctly in accordance with national regulations for electrical / electronic devices. Depending on the country to which the unit is supplied, your local stockist may be able to accept units.

Emissions

You will find details of emissions and electromagnetic compatibility in "FACT SHEET" on page 84.

Scope of supply

1 Traffic Assist Highspeed - PND (**P**ersonal **N**avigation **D**evice)
2 Memory card (containing navigational data)
3 USB connection cable
4 Cable for power supply from car's cigarette lighter (12 volts)
5 Unit bracket
6 TMC antenna*

*Applies only to the Traffic Assist Highspeed II

Front of unit with controls and displays

1 Touch screen showing the main menu selected
2 Touch screen key
Press = activates the corresponding key command
3 Back key
Press = returns to numerous applications
Press for longer = switches the Traffic Assist Highspeed on and off
4 Mood light

Rear of unit

1 Point for connecting up an external antenna
(external antenna not included in the scope of supply)
2 Memory card slot
3 Sound piece for loudspeaker

Side of unit

1 ON/OFF switch
2 Mini USB connection
3 3.5 mm connection for headset/Connection socket for TMC antenna* (headset not included in scope of supply)

*Applies only to the Traffic Assist Highspeed II

Maintenance and care

The unit is maintenance-free.
For proper care, a commercially available cleansing fluid for electrical devices may be applied using a soft damp cloth.

Danger!

Danger to life by electrocution. Always switch off the unit and disconnect the mains power supply unit before cleaning the unit, supplied components, or accessories.

Note:

Do not use any aggressive or abrasive substances or cloths which may damage the surface.
The unit must not be exposed to water.

Your mobile navigation system was designed and manufactured with great care and should be treated with equal care. You will enjoy your mobile navigation system for a long time to come if you observe the recommendations listed in the following:

- "Protect your mobile navigation system from water and moisture. If your unit is exposed to moisture, switch it off immediately and disconnect the power supply. Allow the unit to dry at room temperature.
- Do not operate your mobile navigation system in a dusty or dirty environment and do not store it in such an environment.
- Do not store your mobile navigation system in hot environments. High temperatures can shorten the service life of electronic components in your unit, damage the rechargeable batteries and cause certain plastics to warp or melt.
- Do not store your mobile navigation system in cold environments. During operation, when the unit warms up to operating temperature, moisture may form internally, causing damage to electronic components.
- Do not drop your mobile navigation system unit, protect it from shocks and do not shake it. Improper handling can damage components within the unit.
- Never use corrosive or aggressive chemicals, cleaning solutions or aggressive detergents for cleaning.

All the above information applies equally to the mobile navigation system, the rechargeable battery, the mains charging and car power adapters as well as all accessories. Should one of these parts not work properly, please contact your authorised dealer. He will be pleased to assist.

Battery quality declaration

The capacity of the rechargeable battery in your mobile navigation system decreases with every charging/discharging cycle. Improper storage at excessively high or low temperatures may also cause a gradual deterioration of capacity. Consequently, the operating time may be substantially reduced even in the case of a fully charged battery.
The rechargeable battery is designed such that it should certainly still be possible for it to be charged and discharged after 6 months of operation of your mobile navigation system. In the event of a significant loss of capacity, we recommend replacement of the rechargeable battery. Please contact your authorised dealer. Use only genuine BECKER original spare parts.

Display quality declaration

In some cases, for technical reasons, a few discoloured dots (pixels) may be visible on the display. Some pixels may also appear brighter or darker. However, such instances do not represent a product flaw.

Start-up

Once the Traffic Assist Highspeed has been unpacked and checked for damage, the unit can be started up. The individual start-up stages are:

- insert memory card
- connect to power supply
- Switching on the unit
- Ensuring antenna reception (if navigation is desired)

Note:

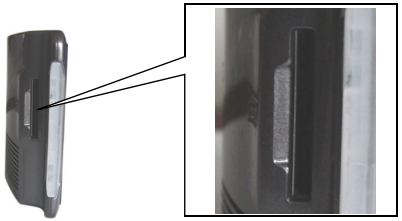
When the unit is switched on for the first time, internal configuration takes place. This takes several minutes. Do not switch the unit off during this configuration.

Memory card

The card supplied with the unit can hold one set of roadmaps. If you intend to listen to music using the Traffic Assist Highspeed or want to view images, you must save these to a separate card (not included).
Playback of music while an active navigation is in progress is only possible if a memory card with a higher storage capacity is used (available separately, formatted with the FAT 16 file system). This can be used to store additional map material as well as music tracks.

Notes:

A small slider is located on one side of the card.



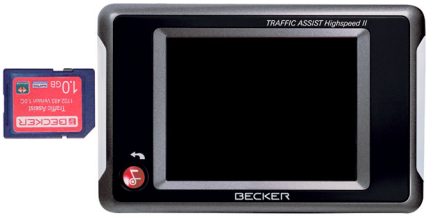
There is a card slot on the left-hand side of the unit. The card compartment is equipped with a spring-actuated lock and ejection mechanism.

Notes:

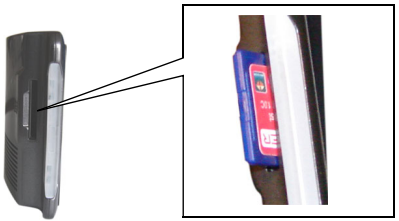
The memory card should only ever be inserted and ejected when the unit is switched off. If the unit is not switched off, data may be lost.

Navigational operations are not possible if the memory card containing card data is not inserted. If you remove this during navigation, directions to your destination will be aborted immediately.

Inserting memory card



- ▶ Remove the memory card from its packaging without touching or soiling the contact bar.
- ▶ Hold the memory card such that the contact bar faces towards the rear of the unit.
- ▶ Guide the memory card into the card slot.



- ▶ Exert a little pressure and slide the memory card into the card slot until it snaps in.

Ejecting memory card

The card slot ejects the card so that you can pull it out with two fingers.

- ▶ Use your finger to gently press the memory card against the spring force into the card slot and then release it.

The card is ejected.

- ▶ Remove the memory card and place it in the packaging while ensuring not to touch contact bar.

Power supply

Note:

First always switch off the Traffic Assist Highspeed before connecting up or removing the power supply.

Using the battery

The internal power supply is via the integrated rechargeable battery. The rechargeable battery is maintenance-free and does not require any particular care.

Note:

Please note that with a completely discharged battery, the unit requires up to one minute until it can be switched on again.

Connecting to socket

Danger of Death!

Make sure that your hands are not damp and that the mains section is dry. Only connect the mains section to a mains supply with which such purposes are permitted.

Connecting up to power supply

Connection to the public mains grid is achieved using the optionally-available mains power supply unit. Please proceed as follows to connect to the mains:

▶ Hold the USB connector at the corrugated grip area and push it into the connecting socket to the stop without employing excessive force.

▶ Use the plug to insert the mains section in the socket.

Removing power supply

▶ To remove the power supply, proceed in reverse.

Note:

Remove the mains section if you are not planning on using the Traffic Assist Highspeed for a long time.

Connecting to the cigarette lighter

Power supplies using a vehicle battery are connected up as follows using the cable supplied for the cigarette lighter.

▶ Hold the USB socket at the corrugated grip area and push it into the connecting socket to the stop without employing excessive force.

Note:

If the cigarette lighter has just been used and is still warm, wait until this has cooled down in its mounting.

▶ Plug the plug adapter into the cigarette lighter.

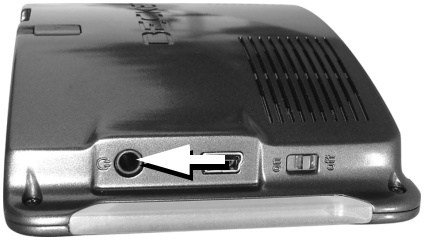
Note:

If the engine is switched off, using the vehicle's power supply through the cigarette lighter will slowly drain the vehicle battery! Do not therefore operate the Traffic Assist Highspeed for extended periods with the engine off.

TMC antenna*

The TMC antenna included in the accessories is used to receive traffic announcements.

▶ Push the connector on the TMC antenna into the socket without employing excessive force.



Note:

Headphones cannot be connected when the TMC antenna is connected. However, traffic announcements can be heard when the headphones are connected.

GPS-antenna

Unit antenna

The GPS antenna is integrated into the housing.

Note:

The integrated GPS antenna is not suitable for use in vehicles with anti-glare windows (metalised thermo-glass or metal foil, indicated by the window label - SIGLA SOL, SIGLA CHROM, SIGLA, KOOL-OF, SUNGATE, etc.) and vehicles with fine-meshed heating wires in the windows.
If this is the case, use an external GPS antenna. Please consult your local specialist dealer.

*Applies only to the Traffic Assist Highspeed II

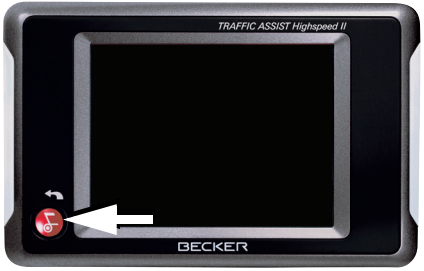
Connecting up external antenna

To enable reception under adverse reception conditions, an external GPS antenna can be connected (not included). For this purpose, a closable connecting socket is located on the rear of the housing. If no external antenna is connected, this connection must always be closed again.

- ▶ Open the closure by pulling gently on its upper surface.
- ▶ Connect the external antenna up as described in the manufacturer"s instructions.

Switching the Traffic Assist Highspeed on/off

The unit is switched on and off using the back key.

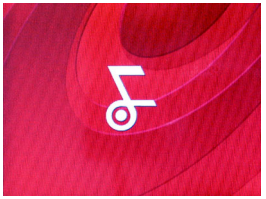


Note:

Please deactivate the Becker moodlights while driving in your vehicle in order to prevent visual distraction from the road traffic!

Switching on

▶ Press the back key for a few seconds. The unit is switched on. The manufacturer's logo appears on the touch screen.



The following question appears shortly thereafter: **Comply with highway code**

▶ If you agree with this request, press the **OK** key.

Note:

The Traffic Assist Highspeed may only be used in accordance with the applicable national road traffic act!

Switching off

You can switch the unit off at any time. If necessary, new destinations should first be saved.

▶ Press the back key for a few seconds.
The unit will enter sleep mode.

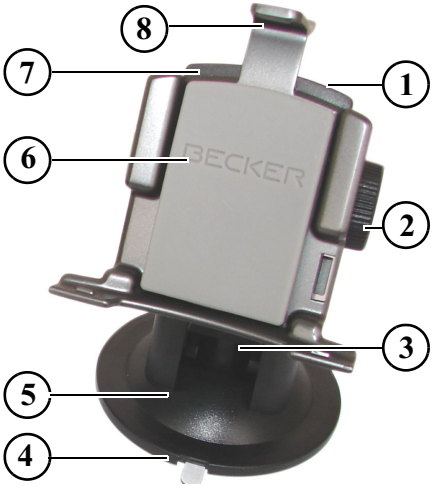
▶ Switch the On/Off switch to Off for final deactivation of the unit.

Unit bracket

The unit bracket can be used to secure the Traffic Assist Highspeeddirectly to the windscreen or dashboard.

Note:

The Traffic Assist Highspeed and unit bracket must not be exposed to long periods of direct sunlight. Temperatures inside the vehicle of +70 C and higher may damage parts of the bracket.



1 Fastening screw
2 Fastening screw
3 Lever
4 Adapter plate
5 Base
6 Unit holder
7 Carrier plate
8 Clip

Fitting the unit bracket

The unit bracket can be secured directly to the inside of the windscreen or to the dashboard.

Note:

Fasten the unit holder such that your field of vision is not impaired when the Traffic Assist Highspeed is installed and ensure that the unit is outside the deployment area of the airbag.
Ensure that the electrical connection cable does not hamper you from accessing the vehicle's controls.
Also ensure that there is enough space to easily slide the Traffic Assist Highspeed back out of the bracket.
Clean the mounting area on the windscreen or dashboard so that it is clean and free of grease. Do not use smearing, soapy cleaning agents, otherwise this may affect how it sticks to the dashboard.

On the windscreen

If the dashboard is too far away from the driver, the unit bracket can be fitted irectly to the windscreen using the suction mechanism.

- ▶ If the adapter plate (4) is already secured at the foot (5), remove this. Pull the lever (3) upwards and remove the adapter plate (4) downwards for this purpose.
- ▶ Find a suitable position.
- ▶ Press the base (5) with its suction surface against the windshield.
- ▶ Rotate the unit bracket so that the support plate is roughly in the direction of viewing required.
- ▶ Press the lever (3) downwards.

The bracket will have stuck firmly to the windscreen. It can now be set precisely. To remove, actuate the lever (3) again.

On the dashboard

An adapter plate is provided for mounting on the dashboard. This is stuck on to the dashboard. The mounting face may only be slightly curved.

Note:

If the adapter plate is removed, you may find residue from the glue on your dashboard.

- ▶ Find a suitable position.
- ▶ Remove the protective film from the lower contact surface of the adapter plate (4). Press the adapter plate (4) onto the instrument panel.
- ▶ Take the unit holder, pull the lever (3) upwards and position the base (5) with its suction surface into the upper contact surface of the adapter (4).
- ▶ Turn the unit holder such that the carrier plate is positioned roughly in the desired viewing direction.
- ▶ Press the lever (3) downwards.

The bracket will have stuck firmly to the adapter. It can now be set precisely. To remove, actuate the lever (3) again.

Adjusting the unit bracket

The support plate (7) can be swung in two directions (horizontally and vertically). It can thereby be set at virtually every angle of vision to the driver.

Note:

Do not swing the support plate in both directions at the same time! Before moving, always take the Traffic Assist Highspeed off the unit bracket.

Vertical movements

- ▶ Loosen the fastening screws (2) on both sides far enough to be able to swivel the carrier plate (7) downwards from above without exerting excessive force.
- ▶ Use one hand to hold the foot (5) and swing the support plate (7) up to the centre or down into the position you want.
- ▶ Tighten the fastening screws (2) sufficiently so that the Traffic Assist Highspeed is held securely in place when the vehicle is in motion.

Horizontal movements

- ▶ Loosen the locking screw (1) until the support plate (7) can be swung from left to right without too much effort.
- ▶ Use one hand to hold the foot (5) and swing the support plate (7) to the left, to the centre or to the right into the position you want.
- ▶ Retighten the locking screw (1) again so that the Traffic Assist Highspeed is secure for travel.

Adding the Traffic Assist Highspeed

The unit holder (6) is equipped with four guides, the carrier plate (7) has corresponding retaining lugs.

- ▶ Position the unit holder with the guides onto the carrier plate retaining lugs.
- ▶ Slide the unit holder downwards to the stop.

The Traffic Assist Highspeed has receptacles for the unit holder on the top and bottom of the housing.

- ▶ Insert the Traffic Assist Highspeed into the unit holder with the receptacles on the bottom of the housing.
- ▶ Press the Traffic Assist Highspeed into the unit holder without employing excessive force until the clip (8) engages in the receptacle.

Note:

To remove the Traffic Assist Highspeed, press the clip (8) on the unit holder with one finger and remove the unit from the unit holder using your free hand.

Basic information about the touch screen

The Traffic Assist Highspeed is fitted with a touch screen.

Note:

To ensure that the display's surface is not damaged, you may only touch it with your fingers or a blunt, non-smearing object.

Operation

The buttons which appear in the menus or message windows should simply be touched so that they are displayed as if they had been pressed.
If the key pressed is not permitted in the current situation, a short signal will sound.

Calibration

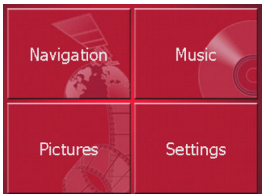
If the touch screen starts responding imprecisely and e.g. buttons have to be touched off-centre in order to be actuated, calibration should be undertaken.
The calibration function is started from the Settings menu (see also page 75).

Basic information about the menus

During operations, you are assisted by various menus and entry windows.

The main menu

The top menu level is the main menu. The individual applications are started from the main menu.



You will find information about the individual applications in the corresponding main chapters.

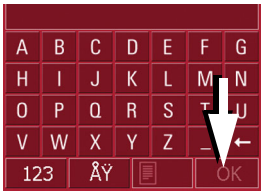
Entries made with the entry menu

Some applications require entries to be made via the entry menu. The entry menu is operated in a similar way to a keypad.

The character entered on the keypad is displayed in the top line of the entry menu. The central area is used to enter characters. Help functions are provided in the bottom line. Descriptions of how to operate the menu are provided below.

Entering characters

Characters are entered by pressing the keys in the central area.



Once the entry is complete, the process is concluded by pressing the OK key and the entry passed on to the Traffic Assist Highspeed for processing.

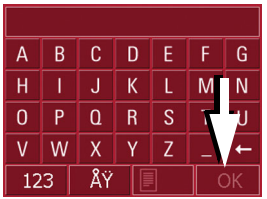
Adopting suggestions

When a navigation destination is entered, the Traffic Assist Highspeed compares the entry with the set of data on the memory card. The Traffic Assist Highspeed then only makes those letters which are possible available for selection and adds a sensible suggestion to the letters already entered.

The suggestion and the characters which cannot be selected are depicted with a slightly darker font. If the desired input appears in the upper display area after entering the first few letters or numbers, you can immediately accept this suggestion.

Note:

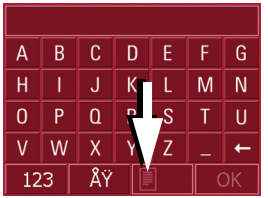
If necessary, you can switch off the smart speller in the navigation settings. It should also be noted that in southern countries (e.g. Italy), the "prefix" (e.g. via Gran Mundo) needs to be entered afterwards (e.g. Gran Mundo_via).



▶ To accept the suggested entry, press the destination or the button OK.

Scrolling through the lists

If you have already entered some of the letters of the selection you want, you can use the selection list to display all the destinations containing the combination of letters in question.



▶ To call up the selection list, press the key.

The selection list appears.

▶ Press the arrow keys on the right hand side of the screen to scroll through the list.

▶ Press the destination you want.

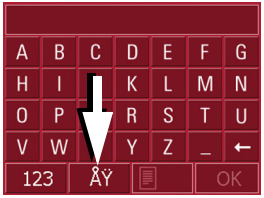
The destination is adopted and the selection list is closed.

Special characters and umlauts

Special characters and umlauts do not have to used when entering the names of towns and streets. The Traffic Assist Highspeed will change entries from AE, OE and UE if necessary.

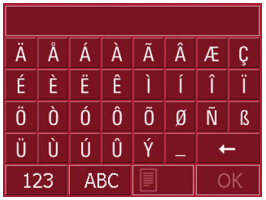
▶ If e. g. you are searching for the town of "Würzburg, then simply press "WUERZBURG".

Special characters can be useful when naming destinations and routes.



▶ To change to the special character keypad, press the ÅŸ key.

The special character keypad is displayed.



▶ Enter the special character you want.

As soon as you have entered a special character, the system automatically switches back to the letters keypad.

Entering numbers

You have to change to the numerical keypad to enter numbers.

▶ Press the 123 key.

The numerical keypad is displayed.

▶ To return to entering letters, press ABC.

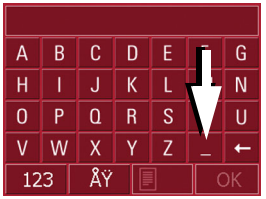
Deleting characters

To delete the last character, use the back key.

▶ To delete the character to the left of the cursor, press the ← key.

Inserting spaces

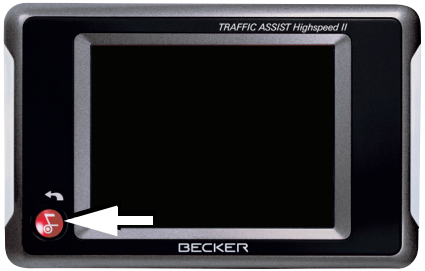
If you have an entry with two words, e.g. for names of towns, the words should be separated by a space.



▶ To enter a space, press the _ key.

The back key

The back key is integrated in the bottom left hand corner of the casing.



It has various functions:

- Pressing and holding switches the Traffic Assist Highspeed to standby and back on again when in standby mode.
- depending on the menu context, if pressed briefly, you will be returned to the previous entry level.

More maps

When supplied, a set of maps is already installed on the memory card. If this is insufficient for the current location, there are others on the DVD supplied. These should be loaded on to the memory card. The countries covered by the individual map sets appear in the installer prior to installation.

Map loaded

The map currently loaded can be called up directly from Traffic Assist Highspeed (see also page 49).

Installation program

There is a map installation program on the map DVD. Once the DVD is inserted in a personal computer's DVD drive, this program will usually start up automatically. The program guides you through the installation process.
Otherwise, you will have to start the program manually.

▶ Open Windows® Explorer.
▶ Select your DVD drive folder.
▶ Double click on the "Setup.exe" file.

Transferring files

Files can be transferred indirectly via the memory card or directly via the USB port.

Note:

Only the maps supplied in the Traffic Assist Highspeed may be used. The installation or transfer of files or programs which limit or modify the function of the Traffic Assist Highspeed is prohibited!

Transferring using the SD card reader

The simplest and fastest form of transfer is to use a standard SD card reader (does not fall within the scope of supply). The memory card is plugged into this.
The files required are then saved on the memory card using the computer's software.

Transferring using the USB port

The USB port is used to link the Traffic Assist Highspeed directly to a personal computer.

For transfers, the Microsoft® Active Sync program must be installed on the computer. This is available free-of-charge from the manufacturer.

The link then involves several steps:

- ▶ switch off Traffic Assist Highspeed.
- ▶ link the Traffic Assist Highspeed and computer using the USB cable.
- ▶ switch the Traffic Assist Highspeed back on.

ActiveSync automatically sets up a link to the Traffic Assist Highspeed.

Transferring maps

The installation software from the DVD should be used for the transfer. This involves the following stages:

- ▶ switch off Traffic Assist Highspeed.
- ▶ remove memory card and plug into an SD card reading device or the use the USB cable to connect the Traffic Assist Highspeed to the computer.
- ▶ boot up the computer and insert the DVD.
- ▶ use the installation program to transfer the map required.
- ▶ slide the memory card back into the Traffic Assist Highspeed or correctly remove the USB cable.
- ▶ switch the Traffic Assist Highspeed back on. The new map is available right away

Transferring pieces of music and pictures

Since the map data takes up virtually all the 1GB memory capacity of the memory card supplied, pictures and music should be saved on to another SD card. The files can be transferred via a card reader or the USB connection.

Note:
Use obvious folder names because these will help you later when you are trying to find the file you want in the Traffic Assist Highspeed.

Faults

If unit faults relating to the operating system occur, messages to this effect will be displayed. These should be acknowledged. If the activated function cannot then be executed, the Traffic Assist Highspeed must be restarted using the ON/OFF switch or the reset button.
If the messages reappear or the unit does not function correctly for any other reason, please contact your local stockist.

Note:
Never attempt to open the unit yourself. Please contact your authorised dealer if you are unable to remedy the fault.

Navigational mode

What is navigation?

Navigation (Latin navigare = to travel by sea) is generally understood to mean finding the position of a vehicle, determining the direction of and distance from the desired destination and establishing and following a route to this destination. Navigational aids include the stars, distinct objects, a compass and satellites.

The Traffic Assist Highspeed uses its GPS receiver to find the vehicle's position. (The Global Positioning System (GPS) was developed by the US military in the 1970's as a missile guidance system.

GPS is based on a total of 24 satellites circling the earth which continuously emit signals. The GPS receiver receives these signals and uses the delay of each of the signals to calculate its distance from the individual satellites. In turn, it can use this information to determine its current geographical position.

The signals of at least three satellites are needed to establish position. If four or more signals are available, height above sea level can also be calculated).

Traffic Assist Highspeed determines the direction of and distance to the destination with the aid of a digital road atlas on the SD card and the navigation computer.

For safety, directions to the designation are **mainly provided verbally.** The direction display and map diagram on the touch screen are further aids.

⚠Safety information

- The road traffic act takes precedence in all circumstances. The navigational system is only an aid. The data/details provided may in some cases be incorrect. The driver must always decide whether to follow the details given or not.
  We accept no liability for the navigational system issuing incorrect details.
- When first started up, it may take up to 30 minutes before a position can be determined.
- Precedence should always be given to actual traffic signs and local traffic rules.
- The directions only relate to cars. Special recommendations and rules for other vehicles (e.g. commercial vehicles) are not taken into consideration.
- Destinations may only be input when the vehicle is stationary.

Selecting navigation

Navigational mode is called up from the main menu.

▶ Press the **Navigation** key in the main menu.

Rapid access is called up.

Aids for navigation

Three aids are provided for navigation and directions: rapid access, navigation menu and map display.

Rapid access

Navigation mode always starts with the fast access for immediate selection of already saved destinations.

Navigation menu

If necessary, the navigation menu can be called up from rapid access, e.g. to enter a new destination not yet provided.

Map display

The map display can also be called up. This doesn't just display the current position but also allows a new destination to be selected.

Rapid access

Rapid access allows you to select from the key functions to quickly start navigation. Rapid access is illustrated below using sample destinations.

Structure of rapid access

Navigation menu and map display

In rapid access, the **Navigation menu** key for calling up this menu is displayed in the top line on the left.
To the right of this, you will find a key featuring a map symbol. This is used to change over to map viewing mode.
The list of destinations is shown in the lines under this.

The list of destinations

The list of destinations displays all the destinations available for quick selection line-by-line. Each line is split into two boxes. Each list box is depicted as a key. The destination is named on the right-hand key and its characteristics shown in the left-hand icon.

Note:

The last 50 destinations are saved in the destinations memory. Once the memory's capacity has been fully used up, the oldest destination is automatically deleted whenever a new one is entered. Important destinations can however be protected.

Icons used

The following icons are used in the list of destinations.

Icon	Meaning
	This destination is a standard destination without any special features.
	This destination is protected. Once the destination memory is full, this destination is not automatically deleted. If required, this can be set manually. In the case of a protected entry, you can also determine the position using the fast access function.

Operating rapid access

Starting using an existing destination

Destinations already in the destinations memory are listed in the list of destinations.

▶ Press the button with the desired destination to start route calculation.

The calculation is started. Once the calculation is complete, the map display appears and directions to the destination begin.

Scrolling in the destinations memory

You can use the keys to scroll through the list display in the direction indicated on the arrow.

The current list page and the total number of its contents appear between the keys.

Displaying or editing destination

Each destination in the destinations memory can be displayed or edited.

▶ Press the icon to the left of the destination required.

▶ A selection menu appears.

Selection	Meaning
Display details	All the data relating to the destination is displayed.
Show on map	The map display and toolbar are called up and the destination displayed.
Name entry	The destination can be renamed.
Delete entry	The destination is deleted from the destination memory.
Protect entry	The destination is protected against automatic deletion.
Disable protection	Protection of the destination is disabled. This function is only available in the case of protected destinations.
Move up	The destination is moved forwards by one position. This function is only available in the case of protected destinations.
Move down	The destination is moved back by one position. This function is only available in the case of protected destinations.
Delete list	All destinations (including the protected ones) are deleted from the list.

Change to map display

You can change to map display from rapid access using the following key.

▶ Press the key featuring the map icon.
The map display and all its functions appear.

Displaying current position

You can have your current position displayed in the map display.

▶ In rapid access, press the key featuring the map icon on the upper edge of the screen.

Calling up Navigation menu

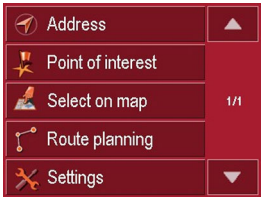
The extended options of the navigation menu are provided by pressing the **Navigation menu** key.

• See "TheNavigation menu" on page 35.

TheNavigation menu

If you do not want to select a destination quickly or if the planned destination is not yet available in the destinations memory, you can use the navigation menu to determine a new destination.

▶ In rapid access, press the **Navigation menu** key at the upper edge of the screen.
The navigation menu appears.



Structure of the navigation menu

Address

The various steps from selecting a destination to starting route guidance can be carried out using the **Address** button.

- See "Navigation menu: Address" on page 36.

Point of interest

Points of interest such as airports and ferry ports, restaurants, hotels, petrol stations or public buildings can be selected and route guidance started via the **Point of interest** button.

- See "Navigation menu: Point of interest" on page 42.

Select on map

With **Select on map**, you can select a destination directly on the map and start route guidance.

- See "Navigation menu: Select on map" on page 44.

Route planning

A route with several stopovers can be planned using the **Route planning** button.

- See "Navigation menu: Route planning" on page 45.

Settings

Various general settings for navigation can be made via the **Settings** button.

- See "Navigation menu: Settings" on page 48.

Navigation menu: Address

A selection window for specifying the destination is opened from the Navigation menu by pressing the **Address** key.

▶ In the navigation menu, press the **Address** button.

The selection window for the address appears.

Selecting a country

The **Country** button offers you all the countries available on the memory card for navigation. A country is adopted automatically in the address input menu after selection. If a destination country has already been entered, it appears in the first line and is therefore active.

▶ Press the destination **Country** key to access the selection list of countries.

The selection list appears.

▶ Press the key of the country you want.

▶ If necessary, press the arrow keys on the right-hand edge of the screen to scroll through all the destination countries available.

Select address and start

You can enter the exact destination address in the address entry screen.

The following details can be entered in the address window:

- Town
- Postcode
- Street and building number
- Intersecting roads as an aid to orientation

You can also:

- display the destination on the map
- define options of the drive profile
- save the destination in the destinations memory
- start directions to the destination immediately.

Selecting the town

The destination town can be entered using its name or postcode. During this process, when each letter is entered a possible town is displayed and/or when each character is entered, a possible postcode is displayed. Traffic Assist Highspeed rules out all impossible combinations of letters and postcodes and only activates those boxes of letters and/or characters which will produce an existing town and/or postcode.

- ▶ Press the town and/or postcode.
- ▶ Enter the letters of the destination town and/or the letters/numbers of the postcode one after another.

Note:

If necessary, you can switch off the smart speller in the navigation settings. It should also be noted that in southern countries (e.g. Italy), the "prefix" (e.g. via Gran Mundo) needs to be entered afterwards (e.g. Gran Mundo_via).

The OK key

The **OK** key can be used to transfer the destination selected into the route calculation menu. If the destination required appears in the upper edge of the display once the first letters or numbers have been entered, you can transfer the destination immediately with **OK** without using the list function.

- ▶ Press the **OK** key to transfer your destination into the route calculation menu.

Note:

If two words have to be entered, these should be separated by a "_" character.

Using the list of towns

If you have already entered some of the letters of the town you want, you can use the **List** function to display all the towns containing the combination of letters in question.

- ▶ Press the key on the bottom edge of the screen to call up the list of towns.
- ▶ A town is selected by pressing the corresponding button.

Selecting the street

In the destination street area, the street and building number can be entered separately using a letter and numerical key panel. A possible street is displayed each time a new letter is entered.

Traffic Assist Highspeed rules out all impossible combinations of letters and only activates those letter boxes which will produce an existing street.

A building number can only be selected once the street has been selected and/or if building numbers are also present in the data.

▶ Press the letters of the destination street one another another.

The OK key

The **OK** key can be used to transfer the destination selected into the route calculation menu. If the destination required appears in the upper edge of the display once the first letters or numbers have been entered, you can transfer the destination immediately with **OK** without using the list function.

▶ Press the **OK** key to transfer your destination into the route calculation menu.

Using the list of streets

If you have already entered some of the letters of the street you want, you can use the **List** function to display all the streets containing the combination of letters in question.

▶ Press the key on the bottom edge of the screen to call up the list of streets.

▶ The street is selected by pressing the corresponding button.

Selecting the Intersection

After you have entered the destination city and street, you can use the junction menu field to display all the streets branching off from or crossing the destination street to assist you in finding your way.

- ▶ Press the **Intersection** key to display all the Intersections in the vicinity of your destination.
- ▶ Press a Intersection to transfer this to the route calculation menu.

Displaying destination on the map

Once the destination has been entered, you can display it in the map of the surrounding area.

- ▶ Press the **In map** key to display the destination selected on the map.

Options for the drive profile

You can set your drive profile in the **Options** settings window. The setting made here impacts on the calculation of the probable journey times and the distance (Short route/Dynamic route*/Fast route).

- ▶ Press the field at the top left to select the mode type.
- ▶ Press the **Type of routing** box.
- ▶ Select one of the following options:

Setting	Meaning
Fast route	With this option, the shortest route possible for the time required is calculated.
Dynamic route*	With this option, the shortest route possible for the time required is calculated in addiction with the incoming traffic messages.
Short route	With this option, the shortest route is calculated in terms of kilometres travelled.

*Applies only to the Traffic Assist Highspeed II

Press the following boxes one after another:

- Motorways
- Ferries
- Toll roads

▶ Select one of the following options:

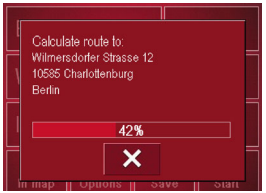
Setting	Meaning
Allowed	With this option, the corresponding road type is included in the route calculation.
Avoid	With this option, wherever possible, the corresponding road type is avoided.
Not permitted	With this option, the corresponding road type is not included in the route calculation.

Saving destination

The **Save** button opens an entry menu for entering a name for the destination entered. If a name has been entered and adopted using **OK**, the destination is transferred to rapid access and protected there. The entry menu allows you to change between upper and lower case letters.

Starting navigation

The **Start** button can be used to start navigation straight away. All the data entered so far is processed in the route calculation.



▶ Press the **Start** key to start navigation.

The route is calculated. The map display then appears and directions to the destination begin.

Stopping navigation

There are three ways in which you can stop directions to the destination.

▶ Press the map display.
▶ Press the **Main menu** key.
▶ Press the OK key to confirm that you want to stop.

or

▶ Press the map display.
▶ Press the **Quit navigation** key.
▶ Press the OK key to confirm that you want to stop.

or

▶ Press the back key.
▶ Press the OK key to confirm that you want to stop.

Navigation menu: Point of interest

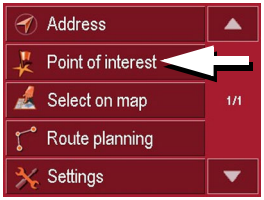
Points of interest, or POI for short (**P**oint **o**f **I**nterest), are included in the map and can be displayed on the map. Points of interest include airports and ferry terminals, restaurants, hotels, petrol stations, public buildings etc. Points of interests can be used as navigational destinations.

Note:

Points of interest from the present surroundings can only be selected if the reception is good enough to locate their position.

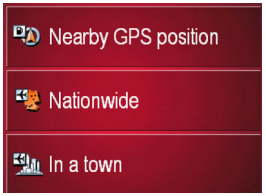
You can select between:

- a nearby destination,
- a nationwide destination and
- a destination in a town.



▶ Press the **Point of interest** key to display the points of interest.

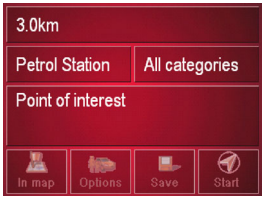
The search area selection window appears.



You can now use the buttons to select the search area you want.

Point of interest: Near GPS position

▶ Press the **Nearby GPS position** button.



The following specifications are possible for searches in this point of interest window.

▶ In the top button, enter the radius (in kilometres) in which a point of interest should be searched for.

▶ From the **All categories** box, select a main category (e.g. car hire). Only those points of interest currently nearby are displayed.

▶ Touch the box next to this and select a sub-category (e.g. SIXT, HERTZ).

You will find information about scrolling in lists in the "Scrolling through the lists" on page 26 chapter.

Note:

If you leave the **Sub-category** box empty, all points of interest from the main category in the radius selected are displayed.

▶ Now select the point of interest which you want to approach.

Note:

The **Category** boxes do not have to be. These are only used to restrict the list of points of interest. In large towns, this list may be very long.

Point of interest: nationwide

▶ Touch the **Nationwide** button.

▶ Select the desired country.

▶ Select the type of point of interest (e.g. airport) from the **All categories** box.

▶ Select the desired category.

▶ Touch the **Point of interest** key to go to the entry menu.

▶ Select the point of interest you want from the entry menu.

You will find information about working with the entry menu in the chapter "Entries made with the entry menu" on page 25.

You will find information about scrolling in lists in the "Scrolling through the lists" on page 26 chapter.

Note:

The **Category** box does not have to be completed. It is only used to restrict the list of points of interest. Depending on the map currently being used, this list may be very extensive.

Point of interest: in a town

▶ Touch the **In a town** button.

▶ Select the desired country.

▶ In the **Town** or **Postcode** box enter the town in which you want to search for a point of interest.

▶ Select a main category (e.g. Culture) from the **All categories** field. Only the categories available in the town indicated are displayed.

▶ Touch the box next to this and select a sub-category (e.g. museum).

▶ Touch the **Point of interest** key to go to the entry menu.

▶ Select the point of interest you want from the entry menu.

You will find information about working with the entry menu in the "Entries made with the entry menu" on page 25 chapter.
You will find information about scrolling in lists in the "Scrolling through the lists" on page 26 chapter.

Note:

The **Category** boxes do not have to be completed. These are only used to restrict the list of points of interest. In large towns, this list may be very long.

Once you have selected a point of interest, the keys in the lower area can be used:

- to display points of interest on the map
- define options of the drive profile
- to save the point of interest in the destinations memory
- to start directions to the point of interest immediately.

Navigation menu: Select on map

If the destination required cannot yet or can no longer be found in the destinations memory, the **Select on map** button allows you to select it directly.
No address details are asked for in this case.

▶ Press the **Select on map** key to make a direct selection.
The map display appears.

Note:

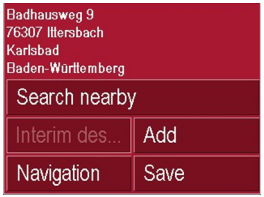
You may have to use the zoom keys to increase the area displayed to find the street required.

▶ Gently press the screen surface until a circle of dots is drawn around the destination requested. The destination is recorded.

Information on the point selected is loaded from the set of data and displayed. There are buttons under the information box which can be used to call up several functions which are provided for the route point selected.
The following function keys are provided for non-active directions to the destination:

Key	Meaning
Navigation	Starts navigation
Add	Adds the destination to the route
Save	Allows your destination to be given a name via the entry menu and saves this in the destinations memory
Search nearby	Entry menu as for normal POI entries

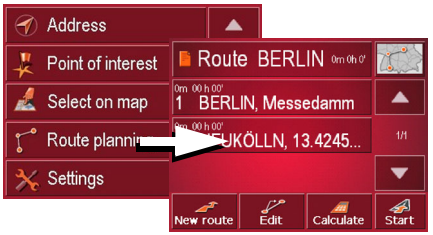
When directions to the destination is active, the **Interim destination** button is also still available. You can use this button to add the destination selected from the map to your route as a part-way destination.



▶ Press a key to undertake the action requested.

Navigation menu: Route planning

The route planning menu allows you to create and select individual routes. In addition to selecting and setting a wide range of details, you can also define legs of the journey.



▶ In **Navigation menu**, press the **Route planning** key to access the route menu.

The map symbol appears at the top right of the route menu. The name of the last programmed route is displayed at the top left and the individual stages of this route appear underneath.

Route list

Routes already stored in the system are selected from the route list.

▶ Press the button with the name of the current route.

The route list opens.

Note:

If no route is displayed (for example after a Reset), press the route button.

Scrolling through the list of routes

▶ Press the ▲ ▼ arrow keys on the right hand side of the screen to scroll through the list of routes.

Displaying route details

▶ Press button to display the route details.

The **Route details** window opens. You can also rename or delete the route in this window.

Press the BACK button to return to the route list.

Selecting a route

▶ Press a route to select it.

The route is loaded and displayed in the **Route planning** window.

Using a route

The following buttons are available:

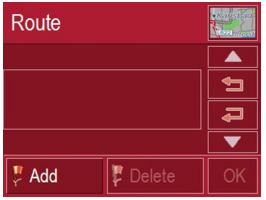
Key	Meaning
Map symbol	Shows all stages inside actual route in the map.
New route	Opens the "address window" for entering a new destination address
Edit	Activates individual route points for processing
Calculate	Calculates the difference in distance and the journey time for the current entries
Start	Starts navigation

The New route button

You can create a new route by pressing the **New route** button.

▶ Press **New route**.

An empty route window appears. The **Add** button appears below this empty window.



▶ Press the **Add** button.

The address entry window opens.

▶ Now enter your route destination (See “Navigation menu: Address” on page 36.).

▶ Repeat these entries in the route planning window for each intermediate destination by pressing **Add**.

▶ You can move the individual entries by pressing the buttons.

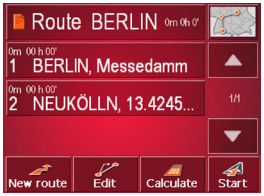
▶ Once all the entries have been made in the route planning window, save the destination data by pressing the **OK** button.

The entry menu appears.

▶ Give the destination a meaningful name.

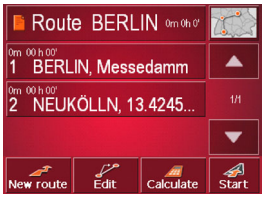
▶ Press **OK**.

Route planning is complete. The **Routing options** entry window opens.



The Edit key

Existing routes can be changed in the **Edit** menu.



▶ Press the **Edit** key to change existing routes.

The route planning window appears. The following functions are available:

Key	Meaning
Add	This box can be used to enter a new route point.
Delete	This box can be used to delete a highlighted route point.
OK	This box can be used to save the processed route and transfer it to rapid access.
Up/Down arrow keys	These keys can be used to scroll up and down through the lists.

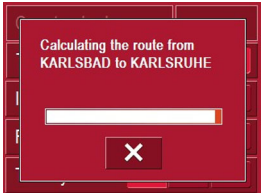
The Calculate key

A planned route can also be calculated without GPS reception so that you can get an overview of the journey.

When doing this, the first route point specified is used as the starting point for the route.

Note:

During navigation, your current location is the starting point used. The first leg is then the journey to the first route point specified.



▶ Press the button to have the total distance and probable length of the journey calculated for this route.

The **Routing options** entry window is opened.

Define the settings you want.

▶ Press the **Calculate** button.

The route is calculated. A window informs you of the progress of the calculation.

Once the calculation is complete, the total distance from the first to the last points on the route and the probable length of the journey for this route are displayed in the **Route planning** window under the list of route points.

The Start key

▶ Press the **Start** key in the route planning menu.

The route options are displayed again.

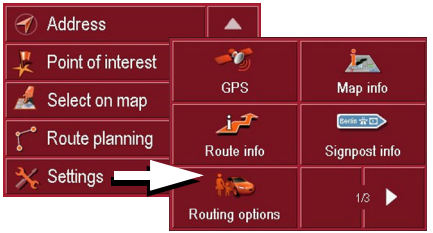
▶ Press the **Start** key again to start navigation.

Navigation menu: Settings

The settings of relevance to the navigation functions can be found in the **Settings** menu.

Note:

All settings must be confirmed by pressing the **OK** key. You can exit the current settings button at any time without saving any changes by pressing the BACK key.



▶ Press the **Settings** key in **Navigation menu**.

This takes you to the setting menu.

Structure

Various buttons are available in the setting menu:

The functions of the various keys are explained below.

The button GPS

The number of satellites received, your current position and your current speed are displayed in the **GPS** information window . It is also possible to save your current location.

▶ To save your current location, press the **Save current position** button.

Save your location in the same way as described in See "Saving destination" on page 41.

The Map info key

You can perform the following settings in the **Map info** configuration window.

Setting	Meaning
Points of interest	If you activate this entry, points of interest are displayed in the map.
Street names	If you activate this entry, all street names are displayed in the map (only 2D Mode).
Info box	If you activate this entry, you get displayed the point of compass, the speed and the sea level.

▶ Confirm your selection by pressing the **OK** key.

The Route info key

You can select settings in the **Route info** settings window:

The following settings are possible.

Setting	Meaning
Display street	Displays the current/ next street
Info about main destination	Displays ETA, distance remaining, time until arrival at the main destination.
Info on leg	Displays ETA, distance remaining, time until arrival at the part-way destination.

- ▶ For the option buttons, press or to activate or deactivate the requirements.
- ▶ Confirm your selection by pressing the **OK** key.

The Signpost info key

You can use the **Signpost info** button to choose whether or not to display information relating to signs that you should follow during navigation.

Setting	Meaning
	Road signs are displayed.
	Road signs are not displayed.

Note:

This information can only be displayed if it is contained in the map material.

The Routing options key

You can set your drive profile in the **Routing options** settings window. The setting made here will impact on the calculation of probable journey times.

- ▶ Select the **Profile** field and choose your mode of transport.
- ▶ Select the **Type of routing** field and choose one of the following options:

Setting	Meaning
Fast route	With this option, the shortest route possible for the time required is calculated.
Dynamic route*	With this option, the shortest route possible for the time required is calculated in addiction with the incoming traffic messages.
Short route	With this option, the shortest route is calculated in terms of kilometres travelled.

▶ Select the fields Motorways, Ferries and Toll roads one-by-one and choose one of the following options for each:

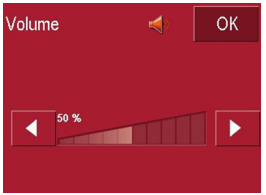
Setting	Meaning
Allowed	With this option, the corresponding road type is included in the route calculation.
Avoid	With this option, wherever possible, the corresponding road type is avoided.
Not permitted	With this option, the corresponding road type is not included in the route calculation.

▶ Confirm your selection by pressing the **OK** key.

The Volume key

Use the **Volume** configuration window to set the volume of all voice prompts every time the Traffic Assist Highspeed is started. Depending on the situation, you can also adjust the volume in the map display.

▶ Select the **Volume** field and choose another value.



▶ Confirm your settings by hitting the **OK** key.

*Applies only to the Traffic Assist Highspeed II

The Speed key

Use the **Speed** configuration window to choose whether or not you wish to have speed limits displayed during navigation. You can also choose whether or not to receive an acoustic warning if you exceed the speed limit.

The following settings are possible.

Setting	Meaning
Show traffic signs	The **Show traffic signs** button allows you to show traffic signs if you exceed the speed limit.
Warning in built-up areas	The **Warning in built-up areas** button indicates the speed limit above which you will receive an acoustic warning when driving in built-up areas.
Warning outside built-up areas	The **Warning outside built-up areas** button indicates the speed limit above which you will receive an acoustic warning when driving outside built-up areas.
Warning	The **Warning** button indicates the speed limit above which you will receive an acoustic warning when particular conditions apply: during rain or snowfalls, or at certain specific times of the day.

- ▶ Press a button and choose the setting you require.
- ▶ Confirm your selection by pressing the **OK** key.

Note:

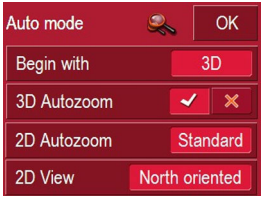
This information may only be displayed if it is actually contained in the map material.

⚠ Warning.

Some of the information contained in the map material may be inaccurate due to short-term or recent changes (such as road works, for example).
Supplying information is secondary to the navigation system's main function, which is traffic monitoring and signposting.

The Automode key

You can choose the following settings in the **Automode** configuration window:



Setting	Meaning
Start setting	Decide whether you wish to have a **3D display** or **2D display** of the map as the default setting.
3D autozoom	Decide whether you wish to work with **Autozoom** or **No autozoom** as the default setting while navigating in the 3D display. With the Autozoom option, the zoom range varies according to your speed: When you drive slowly, the scale is decreased. When you drive faster, the scale is increased.
2D autozoom	Decide whether you wish to work with **Low-range autozoom**, **Normal autozoom**, **High-range autozoom** or **No autozoom** as your default setting while navigating in the 2D display. With the Autozoom option, the zoom range varies according to your speed: When you drive slowly, the scale is decreased. When you drive faster, the scale is increased.
2D display	Decide whether you want the map to face **North** or **In route direction** as the default setting while you are navigating in the 2D display.

▶ Confirm your selection by pressing the **OK** key.

The TMC button*

You can adjust the following settings in the **TMC** settings window:

Setting	Meaning
Station, automatic	By pressing the buttons or you can choose whether to run an automatic search for the station with the best reception.
	Press the arrow buttons to activate the automatic station search. The currently tuned TMC station is displayed in the adjacent field.

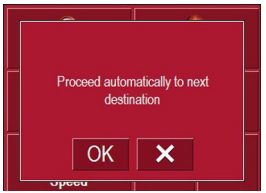
Setting	Meaning
Rerouting	This button allows you to choose whether route changes are made automatically or manually (See "Taking announcements into consideration when calculating routes*" on page 58.).

▶ Confirm your selection by pressing the **OK** key.

The Route planning key

Use the **Route planning** configuration window to specify whether or not you want the system to calculate the next point along your journey automatically as soon as you have completed one stage.

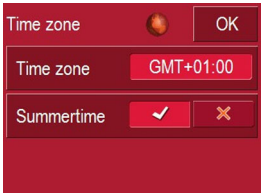
- If you have activated automatic route calculation, the next point along your journey is automatically determined as soon as one stage is completed.
- If you have deactivated automatic route calculation, you can navigate to the next point by briefly selecting any point on the map and then choosing the **Next destination** option.



*Applies only to the Traffic Assist Highspeed II

The Time Zone key

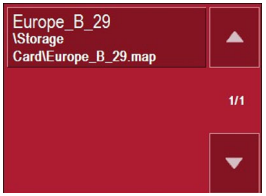
Set the relevant time zone for your region in the **Time Zone** configuration window. This is an important setting for calculating the estimated arrival times.



Setting	Meaning
Time zone	Specify the relevant time zone for your region.
Daylight saving time	Specify whether daylight saving time applies to the current time zone.

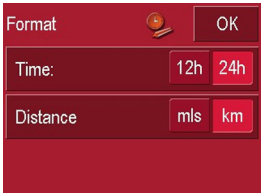
The button Load map

The Traffic Assist Highspeed operates using the map data stored on the memory card. The relevant files must be loaded in accordance with the current location and destination. Pressing the **Load map** button displays the loaded map data. If available, you can select another map.



The Format key

Using the **Format** configuration window, you can specify which units of measurement to use for time and distance.



Setting	Meaning
Time	Press this field to toggle between the 12-hour and 24-hour clock display.
Distance	Press this field to toggle between the kilometre and mile display.

▶ Confirm your settings by hitting the **OK** key.

The Factory settings key

You can use the **Factory settings** configuration window to cancel all new settings and reset the system to the factory settings.

▶ Press the **Factory settings** button.

▶ To revert the Traffic Assist Highspeed to factory settings, press the OK key.

The Smart Speller button

The Smart Speller allows you to enter towns, roads or other destinations that you are searching for more quickly using a logical process of elimination.

You can activate or deactivate the Smart Speller in the **Smart Speller** settings window by pressing the ✓ and ✗ buttons.

▶ Confirm your entry by pressing OK.

What is dynamic route guidance?*

Dynamic route guidance calculates the route, while taking into account current traffic announcements.

Note:

Dynamic route guidance is not available for all countries (currently only Belgium, Germany, Denmark, France, Italy, The Netherlands, Austria, Sweden, Switzerland and Spain).

TMC reception must be available in order to activate dynamic navigation and the functions described below.

Traffic announcements are transmitted by radio stations via the TMC (Traffic Message Channel) in addition to the radio programme and are received and analysed by the navigation system. Receiving traffic announcements is free of charge.

Note:

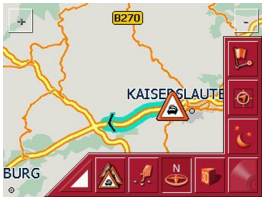
As the traffic announcements are transmitted by radio stations, we cannot assume responsibility for the completeness or accuracy of the announcements.
Austria: The location and event code was made available by ASFINAG and BMVIT.

If dynamic route guidance is active, a continuous check is made for the presence of relevant announcements for the selected route (however, traffic problems still appear on the map even when route guidance is not active).

If these continuous checks determine that a traffic announcement is relevant to route guidance, the unit will automatically recalculate a new route to the destination (See “The TMC button*” on page 54.).

Displaying TMC messages on the map*

Current TMC messages are displayed on the map in graphic form. Sections of the route where there are problems with traffic are highlighted green. A black arrow also indicates the direction of the traffic jam.
In addition to the coloured mark, a warning sign is displayed on the stretch of road affected.



Using TMC*

Once you have connected the TMC antenna, your Traffic Assist Highspeed will receive current traffic announcements and dynamic route calculation will be enabled (traffic jam diversion). You can also view traffic announcements directly.
To preset the TMC, See "The TMC button*" on page 54.

▶ Press the map on the map display.

▶ Press the **TMC** button.
All current traffic announcements are displayed.

*Applies only to the Traffic Assist Highspeed II

You can scroll through the traffic messages using the arrow buttons next to the message.
The road number (motorway, A-road or district roads), section of road if applicable, traffic direction and the type of problem are displayed in each traffic message.

Updating the announcement list*

▶ To update traffic announcements, press .

Taking announcements into consideration when calculating routes*

Your Traffic Assist Highspeed can take traffic announcements into consideration when calculating a route. You have the option of setting this function to automatic or manual under "The TMC button*" on page 54.

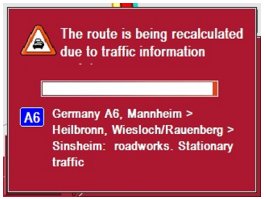
Automatic recalculation*

If a traffic announcement affects your route, a new route is calculated to bypass the problem at the earliest possible convenience.

Manual recalculation*

If a traffic announcement affects your route, a window with detailed information on the traffic announcement appears.

If you wish to calculate a detour around the traffic problem, press **Evade** or alternatively **Ignore**.



*Applies only to the Traffic Assist Highspeed II

Changing status*

You can set the function to act upon or ignore an announcement at any time.

▶ Press the icon on the map display to open the list of TMC announcements.

Messages which are relevant for your route are listed at the beginning.

▶ Press the relevant traffic announcement.

▶ Press the button at the bottom of the screen to switch between **Evade** and **Ignore**.

Map display

You can call the map display from various applications using the miniature map icon.

▶ Select the key with the map icon. This opens the map display.

Map layout

The map layout varies according to the current mode of operation of the Traffic Assist Highspeed.

Map display without driving guidance

If the navigation function has not been activated, the map display will cover virtually all of the touchscreen. An icon for switching to configuration mode with a toolbar is always displayed in the lower right-hand corner of the map.

*Applies only to the Traffic Assist Highspeed II

Map display with driving guidance

If the navigation function has been activated, the position icon will indicate your current location on the map.

Depending on which setting was made in option mode, the position icon may remain stationary while the map moves, or vice versa.
The info box on the left side of the screen displays a compass diagram pointing north, your current speed and the height above sea level in metres.

Information appears in the bottom left corner of the preview area.

The distance remaining is indicated by means of the number of kilometres (or miles) below an arrow. If there are two impending driving manoeuvres in quick succession, a small arrow appears over the first manoeuvre to indicate that another one is coming up.
Additional rows displayed at the bottom of the screen provide more information.

Depending on the settings selected in the **Settings** menu options, a total of three information rows may appear, each containing specific details.

Map display with toolbar

Press the following key to activate the toolbar. Press again to deactivate the toolbar.

The following function keys are displayed in addition to the map display.

The following function keys appear in the toolbar:

Icon	Meaning
	See "Display route (toolbar)" on page 62.
	See "Position and display mode (toolbar)" on page 62.
	See "Displaying TMC messages (toolbar)*" on page 63.*
	See "Daytime - Night-time design (toolbar)" on page 63.
	See "Change display (toolbar)" on page 64.
	See "Point northwards (toolbar)" on page 64.
	See "Move map (toolbar)" on page 64.
	See "Play" on page 68.

Using the map display

Repeat the last voice prompt

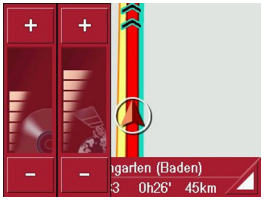
During route guidance, the system announces important information, e.g. the next driving manoeuvre. The last an nouncement can be repeated with updated information.

- ▶ Press the preview area while route guidance is active.
- ▶ The last announcement is repeated with updated information. The volume is also displayed.

Setting announcement/music volume

The volume of the announcements and of the music can be adjusted.

- ▶ Press on the icon for volume at the top right of the preview area while route guidance is active.



Two bar displays indicate the current volume in relation to the overall volume. The left bar indicates the volume of the music and the right bar indicates the volume of the announcements.

- ▶ Press + (louder) and − (quieter) in order to adjust the volume.

*Applies only to the Traffic Assist Highspeed II

⚠Warning.

- **Always adjust the volume so that you can still hear any ambient noise while driving.**

The bar displays disappear after three seconds if the buttons are not pressed.

Information rows

While directions are being given, a maximum of three information rows may be displayed (or hidden) with the following details:

- Current street or next street
- Estimated arrival time, journey time to destination, remaining distance to destination (this row is displayed with a flag).
- Estimated arrival time at interim destination (stopover), journey time and remaining distance to interim destination (this row is displayed with a flag and an additional marking peg).

▶ Select your information rows in the Settings menu using the Route info button, page 49.

Zooming and the map (toolbar)

You can gradually zoom in and out of the map display using the zoom keys in the top two corners of the touchscreen.

▶ Press Zoom in : to expand or "zoom in on the map" and view individual features more closely.

▶ Press Zoom out : to "zoom out from the map" and get a broader overview of the area.

Display route (toolbar)

With this map, the map is automatically zoomed out so that the entire route is displayed. The Display route function is only activated when a route has been selected for driving guidance.

▶ Press the Route key.

The map is expanded and the specific route destinations are displayed.

Position and display mode (toolbar)

You can select a number of different functions with the position key while driving guidance is active.

- When the position key is activated, the map is automatically displayed in such a way that the position icon is roughly located in the centre of the map. The map itself moves constantly.
  This function is automatically selected when driving guidance is started.

Choose this function whenever you want, for example, to locate your current position again after the map display has shifted.

- When the position key is deactivated, the map remains stationary and the position icon moves across the map to the edge of the touchscreen. The icon then disappears.
  This function is automatically displayed if you have manually moved the map. Otherwise the map display would constantly return to the current position.
  Choose this function whenever you want to call up the information window at a particular point on the map.

▶ While driving guidance is activated, press the position key.

The key is displayed as activated (depressed). Press again to deactivate the key.

Displaying TMC messages (toolbar)*

Press this button to display all TMC traffic announcements received from the station you are currently tuned in to.

You have the option of obtaining an overview of the current traffic situation and calculating an alternative route or deleting a previously calculated detour, as required (See “Taking announcements into consideration when calculating routes*” on page 58.).

▶ Press the TMC announcement button.

A list of TMC announcements opens.

▶ Press the arrow buttons on the right of the screen to browse through the list.

Daytime - Night-time design (toolbar)

You can choose between daytime or night-time design to adapt the touchscreen to the current light conditions. If you select the night-time design, the key is displayed as activated (depressed).

The display is adjusted using the daytime/night-time key.

▶ Press the daytime/night-time key.

The design is changed. Press the key again to return to the previous design.

*Applies only to the Traffic Assist Highspeed II

Change display (toolbar)

You can show the map using either 2D display (bird's eye view) or 3D display (spatial display).

Change the display using the 3D key.

▶ Press the 3D key.

The display is changed. Press the key again to return to the previous display.

Point northwards (toolbar)

Use the compass key to orient the map on the touchscreen towards the north.

▶ Press the compass key.

The map is pointed north on the touchscreen.

Move map (toolbar)

In move mode, you can shift the map in any direction required. You can do this by "pinning down" the map at any point and then shifting it. Move mode is activated and deactivated with the following key.

▶ To activate move mode, select the key with the hand icon.

▶ Press on your chosen point in the map and move this point in the direction required.

The map follows this point immediately afterwards.

Note:

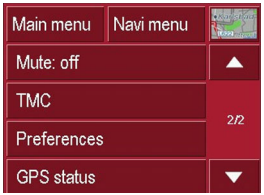
If you wait too long after touching the map, the Options menu is displayed**.**

Call Options menu

The Options menu offers a range of useful functions.

▶ Press on the map briefly.

The Options menu is displayed. To close this menu again, use the Back key or press on the map icon.



The following options are available.

Selection	Meaning
Main menu	Terminates driving guidance and allows you to use other functions such as MP3-Player.
Navigation menu	Terminates driving guidance and switches to rapid access mode.
Map icon	Switches to map display
Quit navigation	Terminates driving guidance (if activated). The rapid access screen is displayed.
Route options	Allows you to change route options (only if driving guidance is activated). • See "Options for the drive profile" on page 40.
Block road	The driving directions planned by the Traffic Assist Highspeed may be hindered by unanticipated road blocks. This function notifies the system of the length of a road block. Existing road block lengths may be selected. Once the length has been entered, the route is replanned and new directions given (only if driving guidance is activated).
Interim destination	Allows you to enter a interim destination (only if driving guidance is activated). • See "Navigation menu: Address" on page 36.
Next destination	Indicates the next destination, if multiple destinations have been entered (only if driving guidance is activated).

Mute mode	The voice prompt for driving manoeuvres can be activated or deactivated.
Settings	• See "Navigation menu: Settings" on page 48.
TMC*	• See "Using TMC*" on page 57.
GPS status	• See "The button GPS" on page 49.

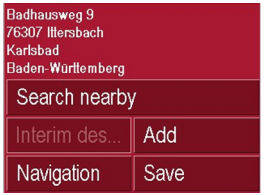
Position information (toolbar)

You can call up the information window if you require information on a particular point on the map display. If information has been stored, this window shows the address of the particular point on the map and offers a number of functions so you can decide on your next step.

▶ Press the following key on the toolbar to stop the driving guidance and map display temporarily.

The map remains stationary. If a particular destination does not appear in the map display, you can either expand the map display or move the map using the keys in the toolbar.

▶ Press and hold down the required destination in the map until a window opens to allow you edit the destination.



▶ Make the settings as required.

Playback of MP3 files during an active navigation

Previously recorded MP3 files can be played back while an active navigation is in progress.

▶ Press .

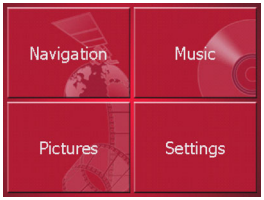
The MP3 player opens.

You can now play back your music files (refer to "Playback" on page 60).

*Applies only to the Traffic Assist Highspeed II

Selecting music playback

Music playback is called up from the main menu.



▶ Press the **Music** key in the main menu.

Calling up without active navigation

The MP3-Player is called up and appears with its main screen.

- If playback of a music track was stopped previously, that last music track is displayed.
- If this is no longer available, the first track on the memory card is displayed.
- If the memory card contains no tracks, the **No music available** message appears.

The MP3 player

The MP3 files saved on a memory card can be called up and played using the MP3 player.

Note:

Please refer to "Transferring pieces of music and pictures" on page 29" to find out how to save tracks to the internal memory or on to a memory card.

The MP3-Player is shown below along with its standard display and a sample track.

In the upper section of the MP3-Players the title of the piece of music currently loaded is displayed along with the artist the number in the current folder level in the track line.

Note:

The artist and track name are taken from the ID3 tag of the MP3 file. If the MP3 track played does not have an ID3 tag, the file name of the track is displayed directly.

Operating the MP3-Players

Various key panels are arranged around the track line to simplify operations.

Track skip

The names of the next and previous track are displayed above and below the current music track.

▶ Press a track.

The track in the track line is loaded.

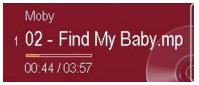
- If the play button is not pressed, the track is not yet played.
- If a piece of music is being played at present, this is stopped and playback of the new track started.

Play

The pieces of music starting from the track displayed in the track line are played when the following key is pressed.

▶ Press the key featuring the play icon.

The MP3-Player starts playback. The key changes to display the pause icon.



During playback, a bar diagram appears under the track to display the play time in relation to the total length of the track. These details are also displayed numerically under the diagram.

Note:

Depending on the bit rate (compression) of the MP3 track, the times displayed may vary slightly from the actual time.

Pause

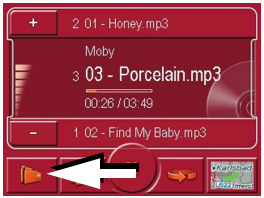
Playback can be paused at any time and then continued.

▶ Press the key featuring the pause icon.

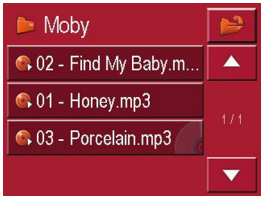
Playback is interrupted. The current track is still displayed in the track line. The button display changes to the Playback icon. Playback is continued by pressing again.

Folder overview

All the music folders saved on the memory card are listed next to the folder button.

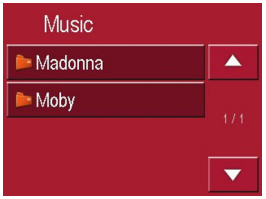


▶ Press (see arrow).



The tracks in the current folder are displayed. You can also directly select a track here. The track currently playing is marked with a CD symbol.

▶ Press in order to switch to the folder view.



▶ You can now select a folder and add it to the playback menu by scrolling up or down.

Opening the next folder

Pressing the following button opens the next folder containing MP3 files and starts playing the first track.

Repeat current track

The piece of music currently being played is repeated continuously when the following key is pressed.

▶ Press the key featuring the repeat icon. Playback of the piece of music is repeated continuously. The repeat icon appears in the track line on the right next to the track.

▶ If you want to stop the repeat function, again press the key featuring the repeat icon.

Setting volume

A volume bar indicates the current volume in relation to the overall volume. You can increase or decrease the volume by pressing the + or - buttons.

⚠Warning.

Always adjust the volume so that you can still hear any ambient noise while driving.

Navigation during MP3 player operation

You can start or continue an active navigation while the MP3 player is playing music.

▶ Press the card symbol on the lower right-hand edge of the screen for this purpose.

The map view is displayed while the music continues to play.

Shutting down the MP3-Player

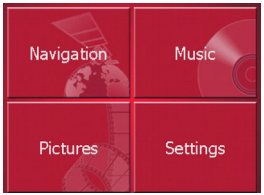
Press the back key to shut down the MP3-Player. The main menu appears.

Note:

Bear in mind that music will continue to play when you exit the MP3 menu. Press the pause icon to stop music playback (See “Pause” on page 68.).

Selecting pictures display

The pictures display is called up from the main menu.



▶ Press the **Pictures** key in the main menu.

The Picture Viewer is called up and appears with its main screen.

- If the last image displayed is present on the memory card, this will be displayed in the image area.
- If it is no longer available, the next picture in the same folder is displayed. If there are no pictures in the corresponding folder, no pictures are displayed.
- If the memory card contains no pictures, the **No pictures available** message appears.

The Picture Viewer

Using the picture viewer, the images stored on the memory card of the Traffic Assist Highspeed (JPG) can be called up and displayed. The Picture Viewer is shown below along with its standard display and a sample picture.

Note:

You can find out how to save image files on a memory card under “Transferring music files and images” on page 26.

The picture currently loaded is displayed in the centre of the Picture Viewers. The file name appears above the picture

Operating the Picture Viewers

Various key panels are arranged around the picture display to simplify operations.

Scrolling

The keys can be used to scroll in the direction indicated by the arrow and to therefore move between the pictures at the current folder level.

A preview of the associated pictures and their file names is displayed under the keys.

Slideshow

During the slideshow, all pictures from the current folder level are automatically displayed one after another. The slideshow can be started using the following key.

▶ Press the key featuring the slideshow icon.

A prompt appears once all images have been displayed.

▶ If you wish to repeat the slide show, press ✓.

▶ If you wish to end the slide show, press ✕.

The slide show will be repeated automatically if no buttons are pressed.

▶ Press the BACK button to end the slide show.

The image display changes to full screen display and initiates the slide show with the displayed image of the current folder level.

▶ The slide show will repeat once all images have been displayed.

Full screen

In full screen mode, the current picture is enlarged to fill the entire touch screen. Full screen mode can be started using the following keys.

▶ Press the key featuring the full screen icon.

The image display changes to full screen and initiates the slide show with the displayed image of the current folder level.

By pressing the left-hand or right-hand touchscreen surface, the previous or next image in the current folder level is displayed.

You can return to the standard screen by pressing the Back key.

Shutting down the Picture Viewer

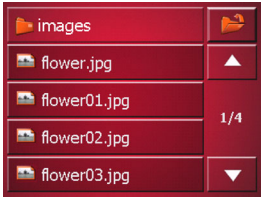
Press the back key to shut down the Picture Viewer. The main menu appears.

Folder viewing mode

Under the picture displayed in the Picture Viewer, the picture's folder level is displayed in a key panel.

▶ Press the key panel.

Folder viewing mode appears.



In this viewing mode, the name of the current folder level is displayed in the top line. It content appears in the list provided below the line.

The list fields are also displayed as buttons. Pictures and sub-folders are displayed along with their names.

Operating folder viewing mode

Subfolders

All folders containing image files are included in the folder overview.

Scrolling

You can use the keys to scroll through the list display in the direction indicated by the arrow.
The current list page and the total number of its contents appear between the keys.

Selecting a picture

You can load a picture from the list straight into the Picture Viewer.

▶ Press the button of the picture you want.

Folder viewing mode is closed and the Picture Viewer appears along without the picture requested.

Changing folder levels

Press to change to the uppermost folder level. All subfolders containing image files are displayed here.
Press the appropriate button to display a subfolder´s contents.

Closing folder viewing mode

The folder overview is closed by pressing the BACK button.

Adjusting the music volume

You can change the volume of music in the picture viewer.

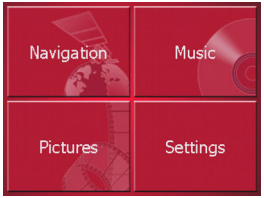
▶ Press the button with the speaker icon. The volume control appears.

▶ To adjust the volume, press the buttons + or –.

The volume control disappears 5 seconds after the last adjustment is made.

Selecting the settings

You can pre-select various basic settings for all applications of the Traffic Assist Highspeed.



▶ Push the button **Settings** in the main menu.

This calls up the setting menu for the further selections.

The setting menu

The various setting possibilities can be selected from the setting menu.

Operation

Selection possibilities

The desired selection is chosen by pushing the desired button. The funtionality of the buttons varies according to the selection and is described under "The individual menu points" on page 74.

Closing the setting menu

The setting menu is closed by pushing the back button, and the main menu then appears.

The individual menu points

Energy

Your Traffic Assist Highspeed may be operated using an external power supply unit or using an integrated rechargeable battery.

Note:

The current charge condition is particularly important when operating from batteries. If there is insufficient energy, then the navigational aid cannot be maintained until the destination is reached, for example.

The energy supply and its condition is visualised using the status display.

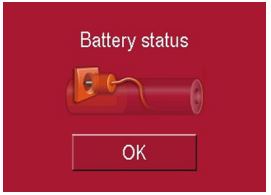
Displaying the energy supply

The status display can be called up using the following button.

▶ Push the button **Energy**.

The status display is called up and the energy supply is visualised.

The charge condition is displayed using the level gauge. In the example, the battery still has a charge of two thirds of its capacity.
The charging operation is indicated by the mains socket symbol in the status display.



Ending the status display
By pushing the button **OK** the status display is ended and the setting menu appears.

Brightness

The following button allows switching between the maximum and minimum brightness of the screen.

▶ Push the button **Brightness**.
The brightness of the screen display changes to the other brightness level. The icon of the active settings is emphasised.

- Icon Day: maximum brightness
- Icon Night: minimum brightness

Calibration

If the touch-screen reacts incorrectly to the touching of the screen in specific areas, calibration is required.

Starting calibration
The calibration can be started using the following button.

▶ Push the button **Calibration**.
The calibration process is started.
Various positions on the screen are indicated in sequence by cross-hairs. Touch this position as accurately as possible.
After all the positions have been touched the calibration process finishes automatically. The setting menu appears. The touch-screen should now operate exactly.

Language

The text of the touch-screen images can be displayed in various languages.

Calling up language selection

The following button allows selection of various different languages.

▶ Push the button **Language**.
The language selection appears.

In the language selection, the available languages are shown in a list which extends over several pages. Each list area is a contact surface. The individual contact surfaces are marked with the language designation and the associated national flag.

Turn the page

These buttons allow page turning in the direction shown by the arrow through the pages of the list.
The current page of the list and the total number of pages is shown between the buttons.

Selecting the language

If you change the language the software restarts.

▶ Push the contact area of the desired language.

For safety reasons, the selection is called up again using the signal **Set language to** .

▶ In order to accept the selected language, push the button .
▶ In order **not** to accept the selected language, push the button .

Cancelling the language selection

The language selection is closed by pushing the back button, and the setting menu then appears.

Moodlight

Using this button, the light bars on the side can be switched on, switched to red or blue, or switched off completely.

▶ Push the button **Mood light**.
The light bars are controlled accordingly.

Note:

Please deactivate the Becker moodlights while driving in your vehicle in order to prevent visual distraction from the road traffic!

Information

Information concerning the Traffic Assist Highspeed is displayed using the following buttons.

▶ Push the button **Information**.
The information display appears.

Please note particularly the product designation and the details of the software version. Always quote these details in the event of queries with Harman/Becker service department.

Active Sync
Active Sync is a Microsoft product. This is the standard synchronisation software for Windows mobile units such as your Traffic Assist Highspeed. The programme can be downloaded free-of-charge from the internet.

GMT
(**G**reenwich **M**ean **T**ime)
Central European Time
The standard time at 0 degrees of longitude (the longitude which passes through Greenwich, Great Britain). This time is used worldwide for the synchronisation of data collection.

GPS
(**G**lobal **P**ositioning **S**ystem)
GPS determines your actual geographical position by the use of satellites. It is based on 24 satellites which orbit the Earth and emit signals. The GPS receiver receives these signals and calculates the distance to each satellite from the running time differences and thus evaluates its actual current position in terms of geographical length and width. In order to determine the position, signals from at least three satellites are required, and the fourth one allows the height to be determined.

HDOP
(**H**orizontal **D**ilution **O**f **P**recision)
HDOP states the quality of the positional dtermination. In theory, values from 0 to 50 are possible, whereby the following applies: the smaller the value the more accurate the positioning (value 0= no deviation from the actual position). Values of up to 8 are acceptable for navigation units.

ID3-Tag
„Index of Contents" of an MP3 title. Contains information such as title, artist, album, year and genre.

JPG/JPEG
(**J**oint **P**hotographic **E**xperts **G**roup)
The JPEG is the most common type of storage format for dissipating picture compression., i.e. when compressing, details of the picture are lost. Still provides good picture quality despite compression, compression stages are selectable. It is the most common format for representation and exchange of pictures on the internet.

Memory Card
A re-writable storage card. In the Traffic Assist Highspeed it is a SD card.

MP3
Special compression process for audio data (e.g. music).

Specialist words

File
Index
File on a CD/storage card/microdrive which contains MPS titles.

SD Card
(**S**ecure **D**igital)
The Secure Digital Card was developed in 2001 by SanDisk on the basis of the older MMC standard. An SD card is a re-writable change-over storage card.

Stylus
A stylus is an input pointer which is used for the operation of touch-screens, mobile phones or PDAs.
The stylus consists basically of a plastic pointer with a softer plastic core. The sleeve is hard and can be gripped and the softer core emerges at the tip and is designed to touch the screen as softly as possible (i.e. without the danger of scratching the screen).
The stylus is more accurate than operation using the fingers, since only the thin tip touches the screen. In addition, dirty marks on the screen caused by finger prints are avoided.

TMC
(**T**raffic **M**essage **C**hannel)
Traffic announcements transmitted by most FM stations via RDS. Basis for dynamic navigation.

USB
(**U**niversal **S**erial **B**us)
The Universal Serial Bus (USB) is a bus sytem for interconnection of a computer with external USB peripherals for the exchange of data.

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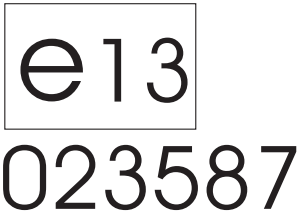
Technical Data

- **Dimensions:**
  (W x H x D) in mm 127 x 81.2 x 49.4
- **Weight:**
  187 grams
- **Processor:**
  400 MHz Processor CISC-architecture
- **Screen:**
  3.5 Inch
  Touch-Screen with 16 Bit colour depth
  65536 Colours
  Low reflection values
- **Storage:**
  64 MB Flash Storage
  64 MB SD-RAM
- **SD Card Reader:**
  Support up to 2 GB
  FAT 16 formatted
- **USB Interface:**
  USB 1.1
  MINI USB
- **Headphone output:**
  3.5 mm Stereo Socket
- **2 Internal speakers**:
  2 Watt max.
- **Power supply voltage:**
  5 Volt DC via USB connection
- **AC Adapter (not included)**:
  110 - 230 Volt
  0.2 Ampere
  50 - 60 Hz
- **Output Voltage:**
  5Volt

FACT SHEET

In accordance with current EU guidelines, this unit can be operated by any person.
This unit conforms with the currently applicable European and harmonised national standards. The marking of the unit gives you the guarantee that the electromagnetic compatibility specification applicable to the unit is maintained. This means that interference with other electrical/electronic units by your unit and that interfering influences on your unit by other electrical/electronic units is avoided to a large degree.

The type approval mark (e13) issued in accordance with European vehicle-EMV guideline 95/54/EG provides approval for installation and operation within powered vehicles (classes M, N and O).